CLAIMS

1. A method for preparing a sample to extract RNA used in a tumor marker detecting method for diagnosing colon cancer, comprising the following process;

a) a process to homogenize the collected biological sample in the presence of an RNase inhibitor, to prepare a suspension thereof;

characterized by involving no procedure of separating cell components from the biological sample.

2. A method according to claim 1, wherein the collected biological sample is frozen.

3. A method according to claim 1 or 2, wherein the RNase inhibitor is guanidine thiocyanate.

4. A method according to any one of claim 1 to 3, wherein the biological sample is feces.

5. A tumor marker detecting method for diagnosing colon cancer, comprising the following processes:

b) a process to extract RNA from the obtained sample for extracting RNA;

c) a process to reverse transcribe the extracted RNA to give cDNA;

d) a process to amplify the obtained cDNA; and

e) a process to detect the amplified cDNA,

in addition to the method according to any one of claim 1 to 4.

6. A method according to any one of claim 1 to 5, wherein the tumor marker is COX-2.

7. A kit for preparing a sample to extract RNA used in a tumor marker detecting method for diagnosing colon cancer, comprising the following means;

a) a means to homogenize a collected biological sample in the presence of an RNase inhibitor, and prepare a suspension thereof;

characterized by involving no means for separating cell components from the biological sample.

8. A kit according to claim 7, comprising further a means to freeze the collected biological sample.

9. A kit according to claim 7 or claim 8, wherein the RNase inhibitor is guanidine thiocyanate.

10. A kit according to any one of claim 7 to 9, wherein the biological samples are feces.

11. A tumor marker detecting kit for diagnosing colon cancer, further comprising the following means:

b) a means to extract RNA from the obtained sample for extracting RNA;

c) a means to reverse transcribe the extracted RNA to give cDNA.

d) a means to amplify the obtained cDNA; and

e) a means to detect the amplified cDNA.

12. A kit according to any one of claim 7 to 11, wherein the tumor marker is COX-2.